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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,090	03/16/2004	Katsuyo Iwasaki	82478-5800	4055

7590 06/15/2005
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EXAMINER

HO, BINH VAN

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/802,090	Applicant(s) IWASAKI ET AL.	
	Examiner Binh V. Ho	Art Unit 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>08/02/2004</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1, 3, 4, 7, 11, 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Hirota (6,750,602).

(Claims 1 and 7)

Hirota discloses a cathode ray tube apparatus (Figure 1) comprising: a cathode ray tube (Figure 1) that includes a glass bulb (Figure 1) formed from a panel (1) and a funnel (2) connected together and an electron gun (6) housed within the glass bulb, and is operable to emit an electron beam (Col. 5, line 24) from the electron gun (6) toward a phosphor screen (100) formed on an inner surface of the panel (1); a deflection yoke (7) including a horizontal deflection coil (71) and a vertical deflection coil (72), and operable to scan the electron beam (Col. 5, line 24) horizontally and vertically over the phosphor screen (100); a velocity modulation coil (9) arranged outside the cathode ray tube (Figure 1), and operable to modulate a velocity at which the electron beam (Col. 5, line 24) is scanned horizontally; and a magnetic member (10,11) arranged to surround an outer circumference of the cathode ray tube (Figure 1) with the velocity modulation coil (9) positioned therebetween, so as to cover a position

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corresponding to a space between a first electrode (61) and a second electrode (62) of the electron gun (6) that are aligned in an axial direction.

(Claims 3 and 11)

Hirota also discloses the cathode ray tube apparatus (Figure 1), wherein the first (61) and second electrodes (62) generate a main lens for converging the electron beam (Col. 1 line 21-24) onto the phosphor screen (100).

(Claims 4 and 12)

Hirota further discloses the cathode ray tube apparatus (Figure 1), wherein the velocity modulation coil (9) is spaced apart from the horizontal deflection coil (71) in the axial direction, so as to avoid occurrence of ringing in an image formed on the Phosphor screen (100) caused by interference between magnetic fields generated by the velocity modulation coil (9) and by the horizontal deflection coil (71).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirota in view of Tsukii (5,028,898).

(Claims 2 and 8)

Hirota discloses all of the elements, except the magnetic member have a looped shape and inserted over the cathode ray tube. Tsukii teaches the magnetic ring (12) mounted around the neck portion of the color cathode ray tube (1). It would have been obvious to one having ordinary skill in the art at the time invention was made to use magnetic ring with cathode ray tube, simply because magnet ring is known in the art to adjust the static convergence and the purity at the central portion of the screen as taught by Tsukii in col. 1, line 19 – 29.

5. Claims 5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirota in view of Tanaka (4,621,215).

(Claim 5 and 9)

Hirota discloses all of the elements, except the Ni-Zn ferrite. Tanaka teaches an annular magnetic core (9) made of Ni-Zn ferrite. It would have been obvious to one having ordinary skill in the art at the time invention to use the magnetic member made of Ni-Zn ferrite, because Ni-Zn ferrite having high magnetic permeability as taught by Tanaka.

6. Claims 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirota in view of Hishiki (6,046,538).

(Claims 6, 10)

Hirota discloses all of the elements, except the Ni-Zn ferrite magnetic powder. Hishiki teaches the ferrite magnetic powder (12) made of Ni-Zn is molded into a predetermined shape. It would have been obvious to one having ordinary skill in the art at the time invention was made to select Ni-Zn as the material for Hirota's magnetic

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power simply because Ni-Zn ferrite magnetic powder is possible to increase the parking rate of the magnetic powder in the yoke core, resulting in a reduction of percentage of contraction caused by curing. Therefore, the yoke core holds a small deviation of permeability at every position, and has precise dimensions as taught by Hishiki.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh V. Ho whose telephone number is 571 272 8583. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh V Ho
Examiner
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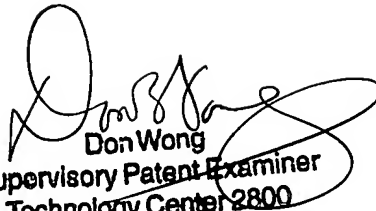
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Binh Van Ho

06/06/2005


Don Wong
Supervisory Patent Examiner
Technology Center 2800